

U.S. Patent Application Serial No.: 10/092,309  
Amendment Under 37 C.F.R. §1.111 dated September 7, 2004  
Response to the Office Action of June 4, 2004

**Amendments to the Specification**

**Amend** the paragraph on page 18, lines 5 through 29 to read as follows:

The backlight device 107 includes a light guide plate 508 tapered or wedged, similarly to the light guide plate 506 shown in FIGURES 4A and 4B. The top portion of the light guide plate 508 has the largest thickness of about 3 mm, and the thinnest, bottom portion has a thickness of about 1.5 mm. On top of the light guide plate 508, the ~~cold cathode fluorescent lamp 10 light bar guide 44~~ is disposed and the light scattering, light guide bar 44 is also disposed behind the lamp 10. An LED 32 is disposed at the right end of the cold cathode fluorescent lamp 10, and an LED 34 is disposed at the left end of the ~~cold cathode fluorescent lamp 10 light bar guide 44~~. In the upper surface of the light guide bar 44, a plurality of grooves 41 similar to the grooves 41 in the bar 44 shown in FIGURES 4A and 4B, extending in the Z direction are arranged in the Y direction. The cold cathode fluorescent lamp 10 is enclosed in a cover formed of reflecting plates 16 which is similar to the cover shown in FIGURES 4A and 4B, and the LED's 32 and 34 are enclosed in covers formed of reflecting plates 36 like the ones shown in FIGURES 4A and 4B. The left and right side and bottom surfaces of the light guide plate 508 are covered with reflecting sheets 58. The upper, front and rear surfaces of the light guide bar 44 are also covered with the reflecting sheets 58.

**Amend** the paragraph on page 19, lines 21 – 27 to read as follows:

FIGURES 6A, 6B and 6C illustrate a liquid crystal display device with a backlight device 109 in accordance with a still further embodiment of the invention. FIGURE 6A is a front view

U.S. Patent Application Serial No.: 10/092,309  
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of the liquid crystal display device including the backlight device 109. FIGURES 6B and 6[[B]]  
C are right side and bottom views, respectively, of the liquid crystal display device of FIGURE  
6A.

**Amend** the paragraph on page 21, lines 19 – 25 to read as follows:

FIGURES 7A, 7B and 7C illustrate a liquid crystal display device with a backlight device 111 in  
accordance with a still further embodiment of the invention. FIGURE 7A is a front view of the liquid crystal  
display device including the backlight device 111. FIGURES 7B and 7[[B]]C are right side and bottom views,  
respectively, of the liquid crystal display device of FIGURE 7A.

**Amend** the paragraph on page 22, lines 35 through page 23, line 6 to read as follows:

FIGURES 8A, 8B and 8C illustrate a liquid crystal display device with a backlight device  
113 in accordance with a still further embodiment of the invention. FIGURE 8A is a front view  
of the liquid crystal display device including the backlight device 113. FIGURES 8B and 8[[B]]  
C are right side and bottom views, respectively, of the liquid crystal display device of FIGURE  
8A. A liquid crystal panel 54 disposed in front of the backlight device 113 is not shown in  
FIGURE 8C.

**Amend** the paragraph on page 26, line 2 10 - 23 to read as follows:

FIGURES 11A and 11B illustrate a liquid crystal display device with a backlight device  
119 in accordance with a still further embodiment of the invention. FIGURE 11A is a front view

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Amendment Under 37 C.F.R. §1.111 dated September 7, 2004  
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of the liquid crystal display device including the backlight device 119. FIGURES 11B is a right side view of the liquid crystal display device of FIGURE 11A. The backlight device 119 is the same as the backlight device 105 shown in FIGURES 4A and 4B, except that the backlight device 119 includes a plurality of LED's 12 disposed at the right end of the light guide bar 44 and a plurality of LED's 34 disposed at the left end of the light guide bar 44. The backlight device 119 can provide[[d]] increased brightness by the use of plural LED's 32 and 34.

**Amend** the paragraph on page 26, line 26 through page 27, line 24 to read as follows:

FIGURES 12A, 12B and 12C illustrate a liquid crystal display device with a backlight device 121 in accordance with a still further embodiment of the invention. FIGURE 12A is a front view of the liquid crystal display device including the backlight device 121. FIGURES 12B and 12[[B]] C are right side and bottom views, respectively, of the liquid crystal display device of FIGURE 12A. The backlight device 121 is similar to the backlight device 109 shown in FIGURES 6A, 6B and 6C, except that a combination of LED's 32 and 34 and a light guide bar 44 is disposed on top of the light guide plate 510 in place of the cold cathode fluorescent lamp 10 and that two cold cathode fluorescent lamps 10 and 11 are disposed on the right and left side surfaces, respectively, of the light guide plate 510 in place of the combination of the LED's 32 and 34 with the light guide bar 44 and the combination of the LED's 33 and 35 with the light guide bar 47.